

***K<sub>2</sub>(1820)****I(J<sup>P</sup>) = ½(2<sup>-</sup>)*

See our mini-review in the 2004 edition of this *Review* (PDG 04) under *K<sub>2</sub>(1770)*.

***K<sub>2</sub>(1820) MASS***

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>1816±13</b>	<sup>1</sup> ASTON	93	LASS    11 <i>K<sup>-</sup>p → K<sup>-</sup>ωp</i>
• • • We do not use the following data for averages, fits, limits, etc. • • •			
~1840	<sup>2</sup> DAUM	81C	CNTR    63 <i>K<sup>-</sup>p → K<sup>-</sup>2πp</i>
1 From a partial wave analysis of the <i>K<sup>-</sup>ω</i> system. 2 From a partial wave analysis of the <i>K<sup>-</sup>2π</i> system.			

NODE=M146

NODE=M146M

NODE=M146M

NODE=M146M;LINKAGE=A  
NODE=M146M;LINKAGE=C

NODE=M146W

NODE=M146W

NODE=M146W;LINKAGE=B  
NODE=M146W;LINKAGE=C

NODE=M146215;NODE=M146

DESIG=5

DESIG=1;OUR EVAL;→ UNCHECKED ←  
DESIG=2;OUR EVAL;→ UNCHECKED ←  
DESIG=3;OUR EVAL;→ UNCHECKED ←  
DESIG=6;OUR EVAL;→ UNCHECKED ←

NODE=M146220

NODE=M146R1  
NODE=M146R1

NODE=M146R2  
NODE=M146R2

NODE=M146R3  
NODE=M146R3

NODE=M146

REFID=49653  
REFID=43597  
REFID=22548

***K<sub>2</sub>(1820) DECAY MODES***

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ <i>Kππ</i>	
$\Gamma_2$ <i>K<sub>2</sub><sup>*</sup>(1430)π</i>	seen
$\Gamma_3$ <i>K<sup>*</sup>(892)π</i>	seen
$\Gamma_4$ <i>Kf<sub>2</sub>(1270)</i>	seen
$\Gamma_5$ <i>Kω</i>	seen

***K<sub>2</sub>(1820) BRANCHING RATIOS***

$\Gamma(K^*(1430)\pi)/\Gamma(K\pi\pi)$	$\Gamma_2/\Gamma_1$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
~0.77	DAUM    81C    CNTR    63 <i>K<sup>-</sup>p → K<sup>-</sup>2πp</i>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
$\Gamma(K^*(892)\pi)/\Gamma(K\pi\pi)$	$\Gamma_3/\Gamma_1$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
~0.05	DAUM    81C    CNTR    63 <i>K<sup>-</sup>p → K<sup>-</sup>2πp</i>
$\Gamma(Kf_2(1270))/\Gamma(K\pi\pi)$	$\Gamma_4/\Gamma_1$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
~0.18	DAUM    81C    CNTR    63 <i>K<sup>-</sup>p → K<sup>-</sup>2πp</i>

***K<sub>2</sub>(1820) REFERENCES***

PDG	04	PL B592 1	S. Eidelman <i>et al.</i>	(PDG Collab.)
ASTON	93	PL B308 186	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
DAUM	81C	NP B187 1	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)